



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Mylavarapu VENKATRAMESH *et al.*

Appln. No.: 10/647,517

Filed: August 26, 2003

For: **Transgenic Plants Containing Altered  
Levels of Sterol Compounds and  
Tocopherols**

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 16518.132

Confirm. No.: 5271

**INFORMATION DISCLOSURE STATEMENT**

**Mail Stop Missing Parts**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The attention of the Examiner is invited to the references listed on the attached Form PTO-1449. Copies of the listed references are either submitted herewith or were previously cited by or submitted to, the Office in a prior application. Pursuant to 37 C.F.R. § 1.98(d) and MPEP § 609, the prior application is identified by its U.S. Application Number in this Information Disclosure Statement on the attached Form PTO-1449, and the above-captioned application relies on the prior application for an earlier filing date under 35 U.S.C. § 120.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.



**CERTIFICATION AND/OR FEE**

Because this Information Disclosure Statement is being submitted prior to issuance of the first action on the merits of the above-captioned application, no certification or fee is required.

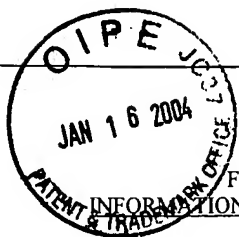
Respectfully submitted,

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Kristan L. Lansbery (Reg. Agent No. 53,183)

Date: January 16, 2004

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FORM PTO-1449

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ATTY. DOCKET NO. 16518.132	APPLICATION NO. 10/647,517
APPLICANTS Mylavarapu VENKATRAMESH <i>et al.</i>	
FILING DATE August 26, 2003	GROUP To Be Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	REFERENCE PROVIDED*
	AA1	4,588,717	5/1986	Mitchell	09/548,256
	AB1	5,244,887	9/1993	Straub	09/548,256
	AC1	5,270,041	12/1993	Eugster <i>et al.</i>	09/548,256
	AD1	5,306,862	4/1994	Chappell <i>et al.</i>	09/548,256
	AE1	5,365,017	11/1994	Chappell <i>et al.</i>	09/548,256
	AF1	5,420,034	5/1995	Kridl <i>et al.</i>	09/548,256
	AG1	5,432,069	7/1995	Grüniger <i>et al.</i>	09/548,256
	AH1	5,451,513	9/1995	Maliga <i>et al.</i>	09/548,256
	AI1	5,518,908	5/1996	Corbin <i>et al.</i>	09/548,256
	AJ1	5,530,185	6/1996	Martineau <i>et al.</i>	09/548,256
	AK1	5,530,191	6/1996	Maliga	Submitted herewith
	AL1	5,554,369	9/1996	Corbin <i>et al.</i>	09/548,256
	AM1	5,558,862	9/1996	Corbin <i>et al.</i>	09/548,256
	AN1	5,576,198	11/1996	McBride <i>et al.</i>	09/548,256
	AO1	5,589,619	12/1996	Chappell <i>et al.</i>	09/548,256
	AP1	5,608,152	3/1997	Kridl <i>et al.</i>	09/548,256
	AQ1	5,693,507	12/1997	Daniell <i>et al.</i>	09/548,256
	AR1	5,753,475	5/1998	Houck	09/548,256
	AS1	5,763,245	6/1998	Greenplate <i>et al.</i>	09/548,256
	AT1	5,811,636	9/1998	Hanna <i>et al.</i>	09/548,256
	AU1				

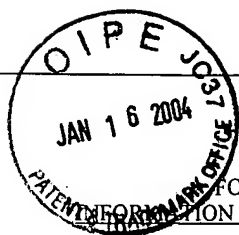
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLATION
	AV1	0 255 378 A3	2/1988	Europe	09/548,256	Yes No
	AW1	0 706 320 B1	4/1996	Europe	09/548,256	Yes No

EXAMINER	DATE CONSIDERED
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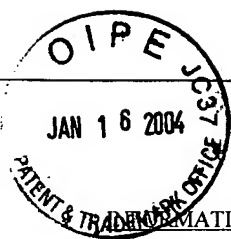
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	REFERENCE PROVIDED*	TRANSLATION
	AA2	0 839 458	5/1998	Europe	09/548,256	Yes No
	AB2	1 033 405	9/2000	Europe	09/548,256	Yes No
	AC2	90/05788	5/1990	PCT	09/548,256	Yes No
	AD2	92/19640	11/1992	PCT	09/548,256	Yes No
	AE2	93/16187	8/1993	PCT	09/548,256	Abstract Yes No
	AF2	95/01098	1/1995	PCT	09/548,256	Yes No
	AG2	95/16783	6/1995	PCT	09/548,256	Yes No
	AH2	95/24492	9/1995	PCT	09/548,256	Yes No
	AI2	95/24493	9/1995	PCT	09/548,256	Yes No
	AJ2	96/38047	12/1996	PCT	09/548,256	Yes No
	AK2	97/27285	07/1997	PCT	09/548,256	Yes No
	AL2	97/39112	10/1997	PCT	09/548,256	Yes No
	AM2	97/42830	11/1997	PCT	09/548,256	Yes No
	AN2	97/48793	12/1997	PCT	09/548,256	Yes No
	AO2	98/06405	2/1998	PCT	09/548,256	Yes No
	AP2	98/06714	2/1998	PCT	09/548,256	Yes No
	AQ2	98/06862	2/1998	PCT	09/548,256	Yes No
	AR2	98/17789	4/1998	PCT	09/548,256	Abstract Yes No
	AS2	98/45457	10/1998	PCT	09/548,256	Yes No
	AT2	99/04622	2/1999	PCT	09/548,256	Yes No
	AU2	99/07867	2/1999	PCT	09/548,256	Yes No
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	AB3	00/08190	2/2000	PCT	09/548,256	Yes No
	AC3	00/10380	3/2000	PCT	09/548,256	Yes No
	AD3	00/32757	6/2000	PCT	09/548,256	Yes No
	AE3	00/32791	6/2000	PCT	09/548,256	Yes No
	AF3	01/04330	1/2001	PCT	09/548,256	Abstract Yes No
	AG3					Yes No
	AH3					Yes No
	AI3					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

REFERENCE  
PROVIDED\*

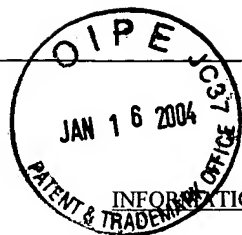
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	AK	3	Database EST Id.: 1456547, GenBank Accession No. AA739734	09/548,256
	AL	3	Database EST Id.: 2304763, GenBank Accession No. AI491090	09/548,256
	AM	3	Database EST Id.: 2949724, GenBank Accession No. AI861123	09/548,256
	AN	3	Database LOCUS ATT22E16, Accession No. AL132975	09/548,256
	AO	3	Database EST Id.: 4171593, GenBank Accession No.: AV442303	09/548,256

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AA

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Database EST Id.: 3548916, GenBank Accession No.: AW203676

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AB

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Database EST Id.: 3592347, GenBank Accession No.: AW234714

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AC

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Database EST Id.: 3799016, GenBank Accession No.: AW396663

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AD

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Database EST Id.: 3925593, GenBank Accession No. AW506800

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AE

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Database EST Id.: 4003115, GenBank Accession No. AW570599

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AF

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Database EST Id.: 37082, GenBank Accession No. D23767

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AG

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Database EST Id.: 1446792, GenBank Accession No.: T44209

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Database EST Id.: 1448982, GenBank Accession No.: T45440

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AI

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Bouvier-Nave *et al.*, "Identification of cDNAs Encoding Sterol Methyl-Transferases Involved in the Second Methylation Step of Plant Sterol Biosynthesis", Europ. J. Biochem., 246(2):518-519 (1997)

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Broun and Somerville, "Progress in Plant Metabolic Engineering", PNAS, 98(16):8925-8927 (2001)Submitted  
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AK

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Caelles *et al.*, "Isolation and Structural Characterization of a cDNA Encoding Arabidopsis Thaliana 3-hydroxy-3-Methylglutaryl Coenzyme A Reductase", Plant Mol. Biol., 13(6):627-638 (1989)

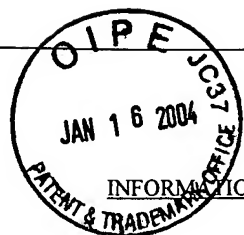
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AA

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Chappell *et al.*, "Is the Reaction Catalyzed by 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase a Rate-Limiting Step for Isoprenoid Biosynthesis in Plants?", Plant Physiology, US, American Society of Plant Physiologists, Rockville, MD, 109(4):1337-1343 (1995)Submitted  
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Cho *et al.*, "Introduction and Expression of the Streptomyces Cholesterol Oxidase Gene (ChoA), a Potential Insecticidal Protein Active Against Boll Weevil Larvae, Into Tobacco Cells", Appl. Micro. Biotech., 44(1-2):133-138(1995)

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Chye *et al.*, "Characterization of cDNA and Genomic Clones Encoding 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase from Hevea Brasiliensis", Plant Mol. Biol., 16(4):567-577 (1991)

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d'Harlingue *et al.*, "Plastid Enzymes of Terpenoid Biosynthesis", J. Biol. Chem., 260(28):15200-15203 (1985)

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AH

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Dyas *et al.*, "Steryl Fatty Acyl Esters in Plants", Phytochemistry, 34(1):17-29 (1993)

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Estruch *et al.*, "Transgenic Plants: An Emerging Approach to Pest Control", Nature Biotechnology, 15(2):137-141 (1997)

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AJ

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Falco *et al.*, "Transgenic canola and soybean seeds with increased lysine", Bio-Technology, 13(6):577-582 (1995) (Abstract)Submitted  
Herewith

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Fujioka *et al.*, "The Arabidopsis *deetiolated2* Mutant in Blocked Early in Brassinosteroid Biosynthesis", The Plant Cell, 9(11):1951-1962 (1997)

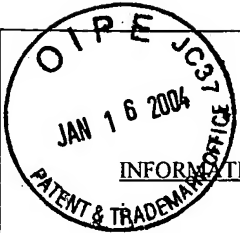
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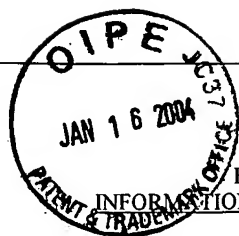
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			August 26, 2003		To Be Assigned	
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						REFERENCE PROVIDED*
	AA	6	Fujishiro <i>et al.</i> , "Isolation and Identification of the Gene of Cholesterol Oxidase from <i>Brevibacterium Sterolicum</i> ATCC 21387, a Widely Used Enzyme in Clinical Analysis", <u>Biochem. and Biophy. Res. Comm.</u> , 172(2):721-727 (1990)			09/548,256
	AB	6	Fuqua <i>et al.</i> , "Characterization of melA: A Gene Encoding Melanin Biosynthesis from the Marine Bacterium <i>Shewanella Colwelliana</i> ", <u>Gene</u> 109, 109(1):131-136 (1991)			09/548,256
	AC	6	Godoy-Hernandez <i>et al.</i> , "Antisense Expression of <i>hmg1</i> from <i>Arabidopsis thaliana</i> Encl ding 3-hydroxy-3-methylglutaryl Coenzyme A Reductase, Reduces Isoprenoid Production in Transgenic Tobacco Plants", <u>Journal of Plant Physiology</u> , 153(3-4):415-424 (1998)			09/548,256
	AD	6	Gonzalez <i>et al.</i> , "Overexpression of HMG-COA Reductase in <i>Arabidopsis Thaliana</i> ", <u>Third Terpnet Meeting of the European Network on Plant Isoprenoids Abstracts</u> , Abstract No. 33, page 33 (1997)			09/548,256
	AE	6	Guo <i>et al.</i> , "Developmental Regulation of Sterol Biosynthesis in <i>Zea Mays</i> ", <u>Lipids</u> , 30(3):203-219 (1995)			Submitted Herewith
	AF	6	Halliwell, "Antioxidants and Human Disease: A General Introduction", <u>Nutrition Reviews</u> , 55(1)(Part II):S44-52 (1997)			09/548,256
	AG	6	Husselstein <i>et al.</i> , "Transformation of <i>Saccharomyces cerevisiae</i> with a cDNA encoding a Sterol C-methyltransferase from <i>Aradidopsis Thaliana</i> Results in the Synthesis of 24-ethyl Sterols", <u>FEBS Letters</u> , 381(1,2,26):87-92 (1996)			09/548,256
	AH	6	International Search Report from International Application No. PCT/US00/09696			Submitted Herewith
	AI	6	Jouanin <i>et al.</i> , "Transgenic Plants for Insect Resistance", <u>Plant Science</u> , 131(1):1-11 (1998)			09/548,256
	AJ	6	Klahre <i>et al.</i> , "The <i>Arabidopsis</i> DIMINUTO/DWARF1 Gene Encodes a Protein Involved in Steroid Synthesis", <u>The Plant Cell</u> , 10(10):1677-1690 (1998)			09/548,256
	AK	6	Kochhar, "Influence of Processing of Sterols of Edible Vegetable Oils", <u>Progress in Lipid Research</u> , 22:161-188 (1983)			09/548,256
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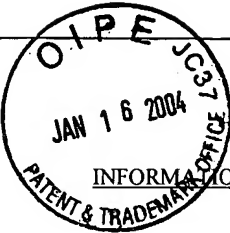




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AA	7	Li <i>et al.</i> , "Conservation of Function Between Mammalian and Plant Steroid 5 $\alpha$ -Reductases", <u>Proc. Natl. Acad. Sci. USA</u> , 94:3554-3559 (1997)			Submitted Herewith
AB	7	Ling <i>et al.</i> , "Minireview Dietary Phytosterols: A Review of Metabolism, Benefits and Side Effects", <u>Life Sciences</u> , 57(3):195-206 (1995)			09/548,256
AC	7	Long <i>et al.</i> , "Fatty Acid Compositions of Lipid Fractions from Vegetable Cells and Mature Sorocarps of the Cellular Slime Mold Dictyostelium Discoideum", <u>Chem. Abs.</u> , 87(5):213 (1977) (Abstract)			09/548,256
AD	7	Maimann <i>et al.</i> , "Enhanced Cystathionine beta-lyase Activity in Transgenic Potato Plants does not Force Metabolite Flow Towards Methionine", <u>Planta</u> , 214(2):163-170 (2001) (Abstract)			Submitted Herewith
AE	7	Murooka <i>et al.</i> , "Cloning and Expression of a Streptomyces Cholesterol Oxidase Gene in Streptomyces Lividans with Plasmid pIJ702", <u>Appl. Environ. Microbiol.</u> , 52(6):1382-1385 (1986)			09/548,256
AF	7	Nawrath <i>et al.</i> , "Targeting of the Polyhydroxybutyrate Biosynthetic Pathway to the Plastids of Arabidopsis Thaliana Results in High Levels of Polymer Accumulation", <u>Proc. Natl. Acad. Sci.</u> , 91(27):12760-12764 (1994)			09/548,256
AG	7	Padgett <i>et al.</i> , "Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line", <u>Crop Science</u> , 35(5):1451-1461 (1995)			09/548,256
AH	7	Ruzafa <i>et al.</i> , "The Protein Encoded by the Shewanella Colwelliana melA Gene is a p-Hydroxyphenylpyruvate Dioxygenase", <u>FEMS Micro Letters</u> , 142/2:179-184 (1994)			09/548,256
AI	7	Schaller <i>et al.</i> , "Expression of the <i>Hevea brasiliensis</i> (H.B.K.) Müll. Arg. 3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase 1 in Tobacco Results in Sterol Overproduction", <u>Plant Physiol.</u> , 109:761-770 (1995)			09/548,256
AJ	7	Schaller <i>et al.</i> , "Sterol Composition of Tobacco Expressing an Arabidopsis cDNA Encoding a Sam-Sterol-C24-Methyl-Transferase", <u>Third Terpenet Meeting of the European Network on Plant Isoprenoids Abstracts</u> , Abstract No. 44, page 44 (1997)			09/548,256
AK	7	Schaller <i>et al.</i> , "Overexpression of an Arabidopsis cDNA Encoding a Sterol-C24 <sup>1</sup> -Methyltransferase in Tobacco Modifies the Ratio of 24-Methyl Cholesterol to Sitosterol and is Associated with Growth Reduction", <u>Plant Physiol.</u> , 118:461-469 (1998)			09/548,256
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	AA	8	Seitz, "Stanol and Sterol Esters of Ferulic and p-Coumaric Acids in Wheat, Corn, Rye, and Triticale", <u>J. Agri. and Food Chem.</u> , pp. 662-667 (1989)	09/548,256
	AB	8	Shigeoka <i>et al.</i> , "Isolation and Properties of $\gamma$ -Tocopherol Methyltransferase in <i>Euglena Gracilis</i> ", <u>Biochem. Biophys. Acta.</u> , 1128(2/3):220-226 (1992)	09/548,256
	AC	8	Shintani <i>et al.</i> , "Elevating the Vitamine E Content of Plants Through Metabolic Engineering", <u>Science</u> , 282(5396):2098-2100 (1998)	09/548,256
	AD	8	Smith <i>et al.</i> , "Cholesterol Oxidases: Properties and Applications", <u>J. Steroid Biochem.</u> , 7(9):705-713 (1976)	09/548,256
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	AH	8		
	AI	8		
	AJ	8		
	AK	8		
EXAMINER				DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.				
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